

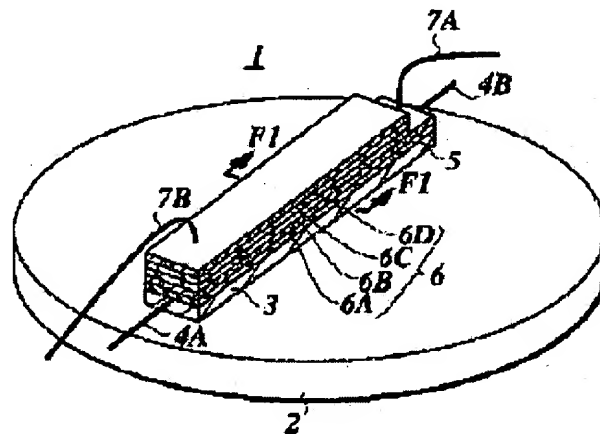
SUPERCONDUCTING SWITCH, AND SWITCHING METHOD OF SUPERCONDUCTING DEVICE AND SUPERCONDUCTING SWITCH

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Abstract of JP2001332775

PROBLEM TO BE SOLVED: To provide a superconducting switch and switching method of a superconducting device and a superconducting switch capable of reducing power consumption and realizing high speed operation.

SOLUTION: The superconducting switch 1 comprises a light emitting section 6 and a superconducting section 3 for varying superconducting transition temperature T_c by on and off of light irradiation of the light emitting section 6. For example, alternately laminated Si thin films and W thin films are used for the superconductor 3. An organic EL element is used for the light emitting section 6. The superconducting device comprises a superconducting magnet, a power supply for supplying power to the superconducting magnet, and the superconducting switch 1 for short-circuiting the superconducting magnet.



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| 1 | 超電導スイッチ |
| 2 | 基板 |
| 3 | 超電導体 |
| 4A | 第1の超電導線 |
| 4B | 第2の超電導線 |
| 5 | 透明絶縁体 |
| 6 | 発光体 |
| 6A | 第1の電極 |
| 6B | 正孔輸送層 |
| 6C | 電子輸送層 |
| 6D | 第2の電極 |
| 7A | 第1の導線 |
| 7B | 第2の導線 |

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